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- 1** A method of interactive visualization of CAD surface models on a 80%
 color video display

Peter R. Atherton

Proceedings of the 8th annual conference on Computer graphics and interactive techniques August 1981

To introduce rendered surface display technology into the production design environment, many CAD operations envision a single color video display device for download processing of selected model pictures. Creation of a single image from a typical industrial CAD model involving a large number of higher order curved surfaces will normally require a minimum of several minutes' delay for data acquisition and visible surface computation. This paper describes a method that exten ...

- 2** Three dimensional computer graphics for craniofacial surgical 77%
 planning and evaluation

Michael W. Vannier , Jeffrey L. Marsh , James O. Warren

Proceedings of the 10th annual conference on Computer graphics and interactive techniques July 1983

The understanding of complex craniofacial deformities has been aided by high resolution computed tomography. Nonetheless, the planar format limits spatial comprehension. Reconstruction of fully three-dimensional bony and soft tissue surfaces from high resolution CT scans has been accomplished by a level slicing edge

detector coupled to a hidden surface processor without perspective depth transformation. This method has clarified aberrant anatomy, facilitated surgical planning and improved q ...

3 A knowledge-based decision support system for flexible manufacturing 77%



D. H. Norrie , R. Fauvel , B. R. Gaines , M. Mowchenko
Proceedings of the second international conference on Industrial and engineering applications of artificial intelligence and expert systems
June 1989

A decision support system is under development for planning in flexible manufacturing, using a consortium of knowledge-based systems utilizing expert system, database, and simulation techniques. An object-oriented approach is incorporated. There are six basic modules: machine selection optimizer; database; production flow analyzer; rapid modelling techniques system; FMS simulator; supervisor. The prototype of the machine selection optimizer has been developed, tested, and is under ...

4 Image-based modeling and rendering: Interactive reconstruction of virtual environments from photographs, with application to scene-of-crime analysis 77%



Simon Gibson , Toby Howard
Proceedings of the ACM symposium on Virtual reality software and technology October 2000

There are many real-world applications of Virtual Reality that require the construction of complex and accurate three-dimensional models, suitably structured for interactive manipulation. In this paper, we present semi-automatic methods that allow such environments to be quickly and easily built from photographs taken with uncalibrated cameras, and illustrate the techniques by application to the real-world problem of scene-of-crime reconstruction.

5 Machine interpretation of CAD data for manufacturing applications 77%



Qiang Ji , Michael M. Marefat
ACM Computing Surveys (CSUR) September 1997
Volume 29 Issue 3

Machine interpretation of the shape of a component for CAD databases is an important problem in CAD/CAM, computer vision, and intelligent manufacturing. It can be used in CAD/CAM for evaluation of designs, in computer vision for machine recognition and machine inspection of objects, and in intelligent manufacturing